(j.) A

Conceptual

2) 5

3.) c

4.) C

5)c

.

.

$$B_{W} = \frac{M_{0}T}{8M_{0}}$$

$$B_{W} = 8.57 \times 10^{-6} \text{ T}$$

$$J = 1.5A$$

$$C = 3.6 \times 10^{2} \text{ M}$$

b.)
$$M = IA$$
 $M = 7.92 \times 10^{6} Am^{2} \cdot 1$
 $A = 0.5A$
 $A = 0.5$
 $M = 7.92 \times 10^{6} Am^{2} \cdot 1$

C)
$$B_{L} = \frac{M0}{2} \frac{IR^{2}}{(2^{2}+R^{2})^{3}}$$

$$E = 0.15A$$

$$R = 4.1 \times 10^{-3} \text{ M}$$

$$E = 3.5 \times 10^{2} \text{ M}$$

$$T = M \times B$$

$$T = M \times B = 0.8 \times 10^{-6} \text{ Am}^{2} (8.57 \times 10^{-6} \text{ T}) = 6.8 \times 10^{-11} \text{ nm}$$

$$O = 90^{\circ}$$

(c.)
$$\beta_{\omega_1} - \beta_{\omega_2} = 3.63 \times 10^{-5} \text{ T/R}$$

$$((0.32+)^{+} + (0.54t^{2})\hat{k}), (0.0225m^{2}\hat{k}) = 0.01215t^{2}$$

b.)
$$I = \frac{\varepsilon}{1}$$

$$\varepsilon = \left| \frac{d\Phi_m}{d\tau} \right| \frac{d\Phi_m}{d\tau} = 0.0243 t Tm^2$$

$$\frac{d \phi_m}{d \tau}$$
 (0.501) = 0.01215 \vee

b.)
$$I = I_0 \cos 0^2$$